

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

DATE MAILED: 04/20/2004

APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/608,573		06/30/2003	Hee Bok Kang	40296-0009	7307	
26633	7590 04/20/2004			EXAMINER		
HELLER E 1666 K STR		N WHITE & MCA	PHAN, T	PHAN, TRONG Q		
SUITE 300	.L. L. ,14 W		ART UNIT	PAPER NUMBER		
WASHING	ron, do	C 20006	2818			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio	n No.	Applicant(s)	i ^y				
		10/608,57	3	KANG, HEE BOK					
	Office Action Summary	Examiner		Art Unit					
		TRONG P	HAN	2818					
	The MAILING DATE of this communication a			orrespondence addre	PSS				
Period fo									
THE - Exter after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION asions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a more preply is specified above, the maximum statutory perion to reply within the set or extended period for reply will, by state the processive of the original period for reply will, by state the processive of the original period for reply will, by state that the main and patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no ever eply within the statu od will apply and will lute, cause the appli	nt, however, may a reply be tin tory minimum of thirty (30) day expire SIX (6) MONTHS from cation to become ABANDONE	nely filed s will be considered timely. the mailing date of this comm D (35 U.S.C. § 133).	nunication.				
Status									
1)🖂	Responsive to communication(s) filed on 30	June 2003.							
2a)□									
3)□	Since this application is in condition for allow				erits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)🖂	Claim(s) <u>1-26</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)⊠	Claim(s) <u>1-20</u> is/are allowed.								
•	Claim(s) <u>21-26</u> is/are rejected.								
	Claim(s) is/are objected to.	d/or alaction re	auirement						
8)[_]	Claim(s) are subject to restriction and	u/or election re	quirement.						
Applicat	ion Papers								
	The specification is objected to by the Exam								
10)	The drawing(s) filed on is/are: a) a								
	Applicant may not request that any objection to t				4 404(-)				
11)	Replacement drawing sheet(s) including the corr The oath or declaration is objected to by the								
Priority	under 35 U.S.C. § 119								
12)🖂	Acknowledgment is made of a claim for forei ☑ All b)☐ Some * c)☐ None of:	ign priority und	der 35 U.S.C. § 119(a)-(d) or (f).					
a)	1. Certified copies of the priority docume	ents have bee	n received.						
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the p	riority docume	ents have been receiv	ed in this National St	age				
	application from the International Bur								
*	See the attached detailed Office action for a	list of the certi	fied copies not receive	ed.					
A44aab	20/-)								
Attachmen	ιτ(s) ce of References Cited (PTO-892)		4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)									
	rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/ er No(s)/Mail Date <u>0404</u> .	ruo)	6) Other:		- 7				
	Trademode Office		•		· · · · · · · · · · · · · · · · · · ·				

Application/Control Number: 10/608,573

Art Unit: 2818

DETAILED ACTION

Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: B/L, W/L and P/L in Fig. 2 Prior Art; CEB, SEN, ACTIVE and PRECHARGE in Fig. 3a Prior Art; CEB, SEN, DOUT, ACTIVE and PRECHARGE in Fig. 3b Prior Art; CEB, /WE, SBSW1, SBPD, MBLC, MBPUC and CSN in Fig. 10; CEB, /WE, DOUT, SBSW1, SBPD, MBLC and CSN in Fig. 11; 210 and 310 in Figs. 12-13; 150 and WL0 in Fig. 14; DEC10, DEC20, SBL and VCC+VPP-Vtn in Fig. 15; 160 and PL0 in Fig. 16; DEC20, DEC10 and VCC+VPP-Vtn in Fig. 17; EN0 in Fig. 18; n+ and P SUBSTRATE in Fig. 21; CEBEN and ATD in Fig. 24. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 2. The disclosure is objected to because of the following informalities: The word "Fi." (line 5, page 32) should be changed to ---Fig.---; the word "Inv41" (line 11, page 36) should be changed to ---INVE41---.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Application/Control Number: 10/608,573

Art Unit: 2818

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 21-26 are rejected under 35 U.S.C. 102(b) as being anticipated by Fukumoto, 6,370,058.

Fukumoto, 6,370,058, discloses in Fig. 10 a nonvolatile ferroelectrics memory device comprising:

memory cell array 5;

row address latch circuit 3;

address transition detector circuit ATD 4;

As shown in Fig. 12, address buffer circuit 35.

Allowable Subject Matter

- 5. Claims 1-20 are allowed.
- 6. The following is an examiner's statement of reasons for allowance:

The nonvolatile ferroelectrics memory device as recited in claims 1-20 has not been found in the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Takeuchi, 6,590,829, Choi et al., 6,504,748, Jeon, 6,385,078, Mizugaki et al.,

Application/Control Number: 10/608,573

Art Unit: 2818

6,525,989, and Kang, 6,661,698.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRONG PHAN whose telephone number is (571) 272-1794. The examiner can normally be reached on M-F (8:30-5:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571)272-1787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER

Page 4